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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	5

Complete If Known	
Application Number	10/671,303
Filing Date	09/24/2003
First Named Inventor	Bao et al.
Art Unit	2812
Examiner Name	
Attorney Docket Number	100.2495

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number: Number - Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JKS	1	US- 5,192,580	03/09/1993	Blanchet-Fincher	
	2	US- 5,288,528	02/22/1994	Blanchet-Fincher	
	3	US- 5,347,144	09/13/1994	Garnier et al.	
	4	US- 5,523,192	06/04/1996	Blanchet-Fincher	
	5	US- 5,563,019	10/08/1996	Blanchet-Fincher	
	6	US- 5,625,199	04/29/1997	Baumbach et al.	
	7	US- 5,766,819	06/16/1998	Blanchet-Fincher	
	8	US- 5,840,463	11/24/1998	Blanchet-Fincher	
	9	US- 5,981,970	11/09/1999	Dimitrakopoulos et al.	
	10	US- 6,051,318	04/18/2000	Kwon	
	11	US- 6,143,451	11/07/2000	Blanchet-Fincher	
	12	US- 6,146,792	11/14/2000	Blanchet-Fincher et al.	
	13	US- 6,174,651	01/16/2001	Thakur	
	14	US- 6,265,243	07/24/2001	Katz et al.	
	15	US- 6,352,811	03/05/2002	Patel et al.	
	16	US- 6,352,812	03/05/2002	Shimazu et al.	
	17	US- 6,403,397	06/11/2002	Katz	
	18	US- 6,551,717	04/22/2003	Katz et al.	
	19	US- 2002/0149315 A1	10/17/2002	Blanchet-Fincher	
V	20	US- 10/256,885	09/27/2002	Bao et al.	

FOREIGN PATENT DOCUMENTS

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Examiner Signature		Date Considered	7/25/08

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Sheet 2 of 5

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BLS	21	US- 10/669,780	09/24/2003	Bao	
BLS	22	US- 60/505,533	09/24/2003	Math	
BLS	23	US- 60/505,880	09/24/2003	Meth et al.	
BLS	24	US- 10/701,183	11/04/2003	Akkerman et al.	
BLS	25	US- 10/722,613	11/26/2003	Aizenberg et al.	
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BLS	26	WO 01/87634 A2	11/22/2001	E.I. du Pont de Nemours and Company		
BLS	27	WO 02/08801 A1	01/31/2002	E.I. du Pont de Nemours and Company		
BLS	28	WO 02/092352 A1	11/21/2002	E.I. du Pont de Nemours and Company		

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Sheet 3 of 5

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Application Number	10/671,303
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
BK S	29	AFZALI ET AL., High-Performance, Solution-Processed Organic Thin Film Transistors from a Novel Pentacene Precursor, J. Am. Chem. Soc., 2002, Page(s) 8812-8813, Volume 124	
	30	AFZALI ET AL., Synthesis and Application of Pentacene Precursor in OTFT, Publisher: IBM Research Division, Published in: Yorktown Heights, NY	
	31	AIZENBERG ET AL., Control of Crystal Nucleation by Patterned Self-Assembled Monolayers, Nature, April 8, 1999, Page(s) 495-498, Volume 398	
	32	AIZENBERG ET AL., Oriented Growth of Calcite Controlled by Self-Assembled Monolayers of Functionalized Alkanethiols Supported on Gold and Silver, J. Am. Chem. Soc., 1999, Page(s) 4500-4509, Volume 121	
	33	AKIMICHI ET AL., Field-Effect Transistors Using Alkyl Substituted Oligothiophenes, Appl. Phys. Lett., 1991, Page(s) 1500-1502, Volume 58, Number 14	
	34	BUTKO ET AL., Limit of Field Effect Mobility on Pentacene Single Crystal, Publisher: Los Alamos National Laboratory, Published in: Los Alamos, New Mexico	
	35	CAI ET AL., Self Assembly in Ultrahigh Vacuum: Growth of Organic Thin Films with a Stable In-Plane Directional Order, J. Am. Chem. Soc., 1998, Page(s) 8563-8564, Volume 120	
	36	COLLET ET AL., High Anisotropic Conductivity in Organic Insulator/Semiconductor Monolayer Heterostructure, Applied Physics Letters, 3/6/2000, Page(s) 1339-1341, Volume 76, Number 10, Publisher: American Institute of Physics	
	37	COLLET ET AL., Low-Voltage, 30 nm Channel Length, Organic Transistors with a Self-Assembled Monolayer as Gate Insulating Films, Applied Physics Letters, April 3, 2000, Page(s) 1941-1943, Volume 76, Number 14	
	38	COLLET ET AL., Nano-field Effect Transistor with an Organic Self-Assembled Monolayer as Gate Insulator, Applied Physics Letters, November 2, 1998, Page(s) 2681-2683, Volume 73, Number 18	
	39	DE BOER ET AL., Synthesis and Characterization of Conjugated Mono- and Dithiol Oligomers and Characterization of Their Self-Assembled Monolayers, Langmuir, 2003, Page(s) 4272-4284, Volume 19	
✓	40	ECHAVARREN ET AL., J. Am. Chem. Soc., 1987, Page(s) 5478-5486, Volume 109	

Examiner Signature		Date Considered	7/23/04

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
BKS	41	FORREST, Ultrathin Organic Films Grown by Organic Molecular Beam Deposition and Related Techniques, Chem. Rev., Page(s) 1793-1896, Volume 97, Publisher: American Chemical Society	
	42	HALIK ET AL., High-Mobility Organic Thin-Film Transistors Based on a, a'-didecyloligothiophenes, Journal of Applied Physics, March 1, 2003, Page(s) 2977-2981, Volume 93, Number 5	
	43	HAN ET AL., Effect of Magnesium Ions on Oriented Growth of Calcite on Carboxylic Acid Functionalized Self-Assembled Monolayer, J. Am. Chem. Soc., 2003, Page(s) 4032-4033, Volume 125	
	44	HAN ET AL., Face-Selective Nucleation of Calcite on Self-Assembled Monolayers of Alkanethiols: Effect of the Parity of the Alkyl Chain, Angew. Chem. Int. Ed., 2003, Page(s) 3668-3670, Volume 42	
	45	HONG ET AL., Thiophene-Phenylene and Thiophene-Thiazole Oligomeric Semiconductors with High Field-Effect Transistor On/Off Ratios, Chem. Mater., 2001, Page(s) 4686-4691, Volume 13, Number 12	
	46	JOHNSTON ET AL., Low-Energy Vibrational Modes in Phenylene Oligomers Studied by THz Time-Domain Spectroscopy, Chemical Physics Letters, 2003, Page(s) 256-262, Volume 377	
	47	KATZ ET AL., Synthesis, Solubility, and Field-Effect Mobility of Elongated and Oxa-substituted a,w-Dialkyl Thiophene Oligomers: Extension of 'Polar Intermediate' Synthetic Strategy and Solution Deposition on Transistor Substrates, Chem. Mater., 1998, Page(s) 633-638, Volume 10, Number 2	
	48	KLAUK ET AL., High-Mobility Polymer Gate Dielectric Pentacene Thin Film Transistors, Journal of Applied Physics, November 1, 2002, Page(s) 5259-5263, Volume 92, Number 9	
	49	KLAUK ET AL., Pentacene Organic Thin-Film Transistors and ICs, Solid State Technology, March 2000, Page(s) 63-76, Volume 43, Number 3	
	50	LI ET AL., Field-Effect Transistors Based on Thiophene Hexamer Analogues with Diminished Electron Donor Strength, Chem. Mater., 1999, Page(s) 458-465, Volume 11, Number 2	
	51	MATTERS ET AL., Organic Field-Effect Transistors and All-Polymer Integrated Circuits, Optical Materials, 1999, Page(s) 189-197, Volume 12	
	52	MEYER ZU HERINGDORF ET AL., Growth Dynamics of Pentacene Thin Films, Nature, August 2, 2001, Page(s) 517-520, Volume 412	
V	53	MUSHRUSH ET AL., Easily Processable Phenylene-Thiophene-Based Organic Field-Effect Transistors and Solution-Fabricated Nonvolatile Transistor Memory Elements, J. Am. Chem. Soc., 2003, Page(s) 9414-9423, Volume 125, Number 31	

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BK/S	54	SEO ET AL., Interpretation of the Mass Change Behavior in the Binary Monolayer of Hydroquinone-tethered Alkylthiol and Aminoalkythiol, Bull. Korean Chem. Soc., 2002, Page(s) 1671-1673, Volume 23, Number 11	
	55	STABEL ET AL., Scanning Tunneling Microscopy of Alkylated Oligothiophenes at Interfaces with Graphite, Synthetic Metals, 1994, Page(s) 47-53, Volume 67	
	56	TANIMOTO ET AL., Binary Phase Chlorination of Aromatic Hydrocarbons with Solid Copper(II) Chloride: Reaction Mechanism, Bull. Chem. Soc. Japan, 1979, Page(s) 3586-3591, Volume 52, Number 12	
	57	XIA ET AL., Soft Lithography, Angew. Chem. Int. Ed., 1998, Page(s) 550-575, Volume 37	

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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office List of Documents Cited by Applicant	Attorney Docket No.: LU05018USU (Bao 37-49-1)	Serial No.: 10/671,303
	Applicant(s): Bao et al.	
	Filing Date: September 24, 2003	Group: 2829

U.S. PATENT DOCUMENTS

Examiner Initials	No.	Document Number	Date	Name	Class	Subclass	Filing date if Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	No.	Document Number	Date	Name of Patentee or Applicant	Country	Translation Yes | No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner Initials	No.	Full Information Of Document
JSK	01	Smith et al., U.S. Patent Application Publication No. 2003/0175551A1, entitled "Surface Modified Organic Thin Film Transistors", published on 9/18/2003.
JSK	02	Qin, Dong et al., "Fabrication of Ordered Two-Dimensional Arrays of Micro- and Nanoparticles Using Patterned Self-Assembled Monolayers as Templates", *Adv. Mater.*, Vol. 11, No. 17, pp. 1433-1437 (1999).

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